CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.11/TBMK/CUBE/2014-15 13.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. T.B. Mahesh Kumar,** Contractor, Bangalore.

Name of the work : Construction of SSM Drain from Singapura Govt. School to Ashraya Layout in Ward No.11, Kuvempunagara, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/(WO)/ /2014-15 Dated: 05.04.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.04.2014	13.05.2014	8.195	365.7	16.25
2	15.04.2014	13.05.2014	8.264	378.2	16.81
3	15.04.2014	13.05.2014	8.372	394.8	17.55

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.11/TBMK/CEMENT/2014-15

Date: 07.04.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. T.B. Mahesh Kumar**, Contractor, Bangalore.
NAME OF THE WORK	:	Construction of SSM Drain from Singapura Govt. School to Ashraya Layout in Ward No.11, Kuvempunagara, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VP/(WO)/ /2014-15 Dated: 05.04.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	25.00 %	-

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Job No.: CTCE/BBMP/W.No.11/TBMK/SAND/2014-15 : 07.04.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. T.B. Mahesh Kumar,** Contractor, Bangalore.

Name of Work : Construction of SSM Drain from Singapura Govt. School to Ashraya Layout in Ward . No.11, Kuvempunagara, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/(WO)/ /2014-15 Dated: 05.04.2014

Date of Testing : 07.04.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	128	6.40	6.40	93.6	90-100
2.36	213	10.65	17.05	83.0	75-100
1.18	508	25.40	42.45	57.6	55-90
600 Micron	412	20.60	63.05	37.0	35-59
300 Micron	486	24.30	87.35	12.7	8-30
150 Micron	203	10.15	97.50	2.5	

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Job No.: CTCE/BBMP/W.No.11/TBMK/AGG/2014-15 : 07.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. T.B. Mahesh Kumar,** Contractor, Bangalore.

Name of Work : Construction of SSM Drain from Singapura Govt. School to Ashraya Layout in Ward No.11, Kuvempunagara, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/(WO)/ /2014-15 Dated: 05.04.2014

Date of Testing : 07.04.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1015	3.90	3.90	96.10	95-100
20	15865	61.02	64.92	35.08	30-70
10	6230	23.96	88.88	11.12	10-35
4.75	2580	9.92	98.81	1.19	0-5

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Job No.: CTCE/BBMP/W.No.11/TBMK/STEEL/2014-15 07.04.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. T.B. Mahesh Kumar**, Contractor, Bangalore.
Name of the work	:	Construction of SSM Drain from Singapura Govt. School to Ashraya Layout in Ward No.11, Kuvempunagara, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VP/(WO)/ /2014-15 Dated: 05.04.2014
Date of Test	:	07.04.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	551	13.15	O.K	O.K

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15.05.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. T.B. Mahesh Kumar,** Contractor, Bangalore.
Name of the work	: Construction of SSM Drain from Singapura Govt. School to Ashraya Layout in Ward No.11, Kuvempunagara, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VP/(WO)/ /2014-15 Dated: 05.04.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.04.2014	15.05.2014	8.294	496.3	22.06
2	17.04.2014	15.05.2014	8.372	497.2	22.10
3	17.04.2014	15.05.2014	8.456	498.5	22.16

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